TRI-PARTY AGREEMENT

Change Notice Number TPA-CN- 612	TPA CHANGE NOTICE FORM	Date: February 11, 2014
Document Number, Title, and Revision: DOE/RL-2000-59, *Sampling and Analysis Plan for Aquifer Sampling Tubes*, Rev 1		Date Document Last Issued: February 2009
Originator: Marty Doornbos		Phone: 376-2980

Description of Change:
DOE/RL-2000-59, Rev. 1, is revised to reduce sampling frequency and analytes for 300-FF-5 aquifer tubes.

Briant Charboneau (**DOE-RL**) and Larry Gadbois (**Environmental Protection Agency**) agree that the proposed change modifies an approved workplan/document and will be processed in accordance with the Tri-Party Agreement Action Plan, Section 9.0, *Documentation and Records,* and not Chapter 12.0, *Changes to the Agreement.*

Table A-1, pages A-19 through A-21, of DOE/RL-2000-59, *Sampling and Analysis Plan for Aquifer Sampling Tubes*, Rev. 1, is revised to make the following changes:

- The sampling frequency for 22 aquifer tubes in the 300-FF-5 Operable Unit is modified from semiannually to annually. The annual sampling will be scheduled for December to accommodate low Columbia River stage access for collecting aquifer tube samples, and to coincide with monitoring well sampling. The March sampling provides redundant data and is deleted.
- Aquifer tube AT-3-8-D did not yield water and was removed from the ground, so it has been deleted from Table A-1.
- The analysis for filtered metals is deleted because the 300-FF-5 OU does not pose a risk to aquatic receptors.

Note: Table A-1 was intended to be the sampling schedule for FY 2009. However, the appendix has not been revised and the FY 2009 schedule remains in effect, so this change provides an updated sampling schedule. Also, the page headers in the table have an erroneous document number, which is corrected by this change to "DOE/RL-2000-59, Rev. 1".

The revisions to Table A-1, pages A-19 through A-21, of DOE/RL-2000-59 Rev. 1 are attached. Deleted text is identified by ~~strikethrough~~. Added text is identified by <u>double underline</u>.

Justification and Impacts of Change:
Because the Record of Decision (ROD) for the 300-FF-5 OU was signed in November 2013, groundwater characterization sampling and analysis is being reduced by (1) deleting sampling at wells where data needs have been met; (2) reducing frequency of sampling at aquifer tubes; and (3) eliminating analyses for filtered metals. Sampling and analysis will continue to support monitoring for the contaminants of concern identified in the ROD. Sampling and analysis is being supplemented by adding sampling at wells to monitor impacts from waste site remediation. These changes are being implemented through the following four TPA change notices: TPA-CN-611 for DOE/RL-2002-11, *300-FF-5 Operable Unit Sampling and Analysis Plan,* Rev 2; TPA-CN-612 for DOE/RL-2000-59, *Sampling and Analysis Plan for Aquifer Sampling Tubes,* Rev. 1; TPA-CN-609 for DOE/RL-2009-30, *300 Area Remedial Investigation/Feasibility Study Work Plan for the 300-FF-1, 300-FF-2, and 300-FF-5 Operable Units*, Rev. 0; and TPA-CN-610 for DOE/RL-2009-45, *300 Area Remedial Investigation/Feasibility Study Sampling and Analysis Plan for the 300-FF-1, 300-FF-2 and 300-FF-5 Operable Units*, Rev. 0.

The aquifer tubes will be considered in the future for inclusion in the groundwater monitoring network needed to support implementation of the remedial action for the 300-FF-5 OU selected in the Record of Decision.

Approvals:

BRIANT CHARBONEAU DOE Project Manager	2-12-14 Date	[X] Approved [ ] Disapproved
Larry Gadbois EPA Project Manager	2-13-2014 Date	[X] Approved [ ] Disapproved
N/A Ecology Project Manager	Date	[ ] Approved [ ] Disapproved

Table A-1. Aquifer Tube Sampling Sites and Analyses Proposed for Fiscal Year 2009. (19 sheets)

Tube Name	Note for Tubes Installed 2007 or 2008	Scheduled Collection Month	Frequency	Field Parameters	Anions	Hexavalent Chromium	Metals (Unfiltered)	Metals (Filtered)	Alkalinity	Arsenic	Tritium	Gross Alpha/ Beta	Gross Beta	Carbon-14	Gamma Scan	Iodine-129	Strontium-90[c]	Technetium-99	Total Uranium	VOA	TPH	TOC
C6384	M	Dec	A	1	1	1					1	1				1		1				
C6353	S	Dec	A	1	1	1					1	1				1		1				
C6356	S	Dec	A	1	1	1					1	1				1		1				
C6359	S	Dec	A	1	1	1					1	1				1		1				
C6362	S	Dec	A	1	1	1					1	1				1		1				
C6365	S	Dec	A	1	1	1					1	1				1		1				
C6368	S	Dec	A	1	1	1					1	1				1		1				
C6371	S	Dec	A	1	1	1					1	1				1		1				
C6374	S	Dec	A	1																		
C6375	M	Dec	A	1	1	1					1	1				1		1				
C6380	S	Dec	A	1	1	1					1	1				1		1				
C6380	S	Dec	A	1	1	1					1	1				1		1				
300-FF-5 Segment																						
AT-3-1-S		~~Oct~~Dec	A	1															1			
AT-3-1-M		~~Oct,~~ ~~Mar~~Dec	~~SA~~A	~~2~~1	~~2~~1		~~2~~1	~~2~~	~~2~~1		1	~~2~~1							~~2~~1	~~2~~1		
AT-3-1-D(1)		~~Oct~~Dec	A	1															1			
AT-3-2-S		~~Oct~~Dec	A	1															1			
AT-3-2-M		~~Oct,~~ ~~Mar~~Dec	~~SA~~A	~~2~~1	~~2~~1		~~2~~1	~~2~~	~~2~~1		1	~~2~~1							~~2~~1	~~2~~1		
C6341	S	~~Oct,~~	~~SA~~A	~~2~~1															~~2~~1	~~2~~1		

Table A-1. Aquifer Tube Sampling Sites and Analyses Proposed for Fiscal Year 2009. (19 sheets)

Tube Name	Note for Tubes Installed 2007 or 2008	Scheduled Collection Month	Frequency	Field Parameters	Anions	Hexavalent Chromium	Metals (Unfiltered)	Metals (Filtered)	Alkalinity	Arsenic	Tritium	Gross Alpha/ Beta	Gross Beta	Carbon-14	Gamma Scan	Iodine-129	Strontium-90[c]	Technetium-99	Total Uranium	VOA	TPH	TOC
		~~Mar~~Dec																				
C6342	M	~~Oct,~~ ~~Mar~~Dec	~~SA~~A	~~2~~1	~~2~~1		~~2~~1	~~2~~	~~2~~1		1	~~2~~1							~~2~~1	~~2~~1		
C6343	D	~~Oct,~~ ~~Mar~~Dec	~~SA~~A	~~2~~1															~~2~~1	~~2~~1		
AT-3-3-S		~~Oct,~~ ~~Mar~~Dec	~~SA~~A	~~2~~1	~~2~~1		~~2~~1	~~2~~	~~2~~1		1	~~2~~1							~~2~~1	~~2~~1		
AT-3-3-M		~~Oct,~~ ~~Mar~~Dec	~~SA~~A	~~2~~1															~~2~~1	~~2~~1		
AT-3-3-D		~~Oct,~~ ~~Mar~~Dec	~~SA~~A	~~2~~1															~~2~~1	~~2~~1		
C6344	S	~~Oct,~~ ~~Mar~~Dec	~~SA~~A	~~2~~1	~~2~~1		~~2~~1	~~2~~	~~2~~1		1	~~2~~1							~~2~~1	~~2~~1		
AT-3-4-S		~~Oct,~~ ~~Mar~~Dec	~~SA~~A	~~2~~1	~~2~~1		~~2~~1	~~2~~	~~2~~1		1	~~2~~1							~~2~~1	~~2~~1		
AT-3-4-M		~~Oct,~~ ~~Mar~~Dec	~~SA~~A	~~2~~1															~~2~~1	~~2~~1		
AT-3-4-D		~~Oct,~~ ~~Mar~~Dec	~~SA~~A	~~2~~1															~~2~~1	~~2~~1		
C6347	S	~~Oct,~~ ~~Mar~~Dec	~~SA~~A	~~2~~1															~~2~~1	~~2~~1		
C6348	M	~~Oct,~~ ~~Mar~~Dec	~~SA~~A	~~2~~1	~~2~~1		~~2~~1	~~2~~	~~2~~1		1	~~2~~1							~~2~~1	~~2~~1		
AT-3-5-S		~~Oct,~~ ~~Mar~~Dec	~~SA~~A	~~2~~1	~~2~~1		~~2~~1	~~2~~	~~2~~1			~~2~~1							~~2~~1			
C6350	S	~~Oct,~~	~~SA~~A	~~2~~1															~~2~~1	~~2~~1		

Table A-1. Aquifer Tube Sampling Sites and Analyses Proposed for Fiscal Year 2009. (19 sheets)

Tube Name	Note for Tubes Installed 2007 or 2008	Scheduled Collection Month	Frequency	Field Parameters	Anions	Hexavalent Chromium	Metals (Unfiltered)	Metals (Filtered)	Alkalinity	Arsenic	Tritium	Gross Alpha/ Beta	Gross Beta	Carbon-14	Gamma Scan	Iodine-129	Strontium-90[c]	Technetium-99	Total Uranium	VOA	TPH	TOC
		~~Mar~~Dec																				
C6351	M	~~Oct,~~ ~~Mar~~Dec	~~SA~~A	~~2~~1	~~2~~1		~~2~~1	~~2~~	~~2~~1		1	~~2~~1							~~2~~1	~~2~~1		
AT-3-6-S		~~Oct,~~ ~~Mar~~Dec	~~SA~~A	~~2~~1	~~2~~1		~~2~~1	~~2~~	~~2~~1			~~2~~1							~~2~~1			
AT-3-6-M		~~Oct~~Dec	A	1															1			
AT-3-6-D		~~Oct,~~ ~~Mar~~Dec	~~SA~~A	~~2~~1															~~2~~1	~~2~~1		
AT-3-7-S		~~Oct~~Dec	A	1															1			
AT-3-7-M		~~Oct,~~ ~~Mar~~Dec	~~SA~~A	~~2~~1	~~2~~1		~~2~~1	~~2~~	~~2~~1			~~2~~1							~~2~~1			
AT-3-7-D		~~Oct,~~ ~~Mar~~Dec	~~SA~~A	~~2~~1															~~2~~1	~~2~~1		
AT-3-8-S		~~Oct,~~ ~~Mar~~Dec	~~SA~~A	~~2~~1	~~2~~1		~~2~~1	~~2~~	~~2~~1			~~2~~1							~~2~~1			
AT-3-8-M		~~Oct~~Dec	A	1															1			
~~AT-3-8-D~~		~~Oct~~	~~A~~	~~1~~															~~1~~	~~1~~		

[a] Sampled by apatite project staff (DOE/RL-2005-95, April 2008 addendum). Included in this sampling and analysis plan for information.
[b] Horn area sampling and analysis instruction (SGW-33224) specifies frequency of quarterly for one year (last quarter will be November 2008), then review data and determine frequency. Will schedule annually for FY09 (i.e., November). Can add more if Horn area evaluation warrants.
[c] Sample regardless of specific conductance.

NOTES:

Choice of tube depths to sample for full suite of constituents may vary depending on field conditions. See Table A-2 for recommendations of tube depths to sample.
Notes for tubes installed 2007 or 2008: Horn area tubes in accordance with SGW-33224; others in accordance with SGW-36398. "S," "M," and "D" indicate relative depths of tubes.

Frequency: A = annual; SA = semi-annual; Q = quarterly; M = monthly